



Performance Data Sheet

VSC5540BNA

General Information

Model	VSC5540BNA	Refrigerant	R-410A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	13100	11300					
	Watts	2250	2460					
	Amps	10.5	12.0					
	Lb/h	159	143					
-10	Btu/h	15900	14100	12300				
	Watts	2280	2490	2780				
	Amps	10.5	11.9	13.6				
	Lb/h	191	177	164				
-5	Btu/h	18700	16900	15100	13400			
	Watts	2290	2520	2810	3180			
	Amps	10.5	11.9	13.5	15.4			
	Lb/h	224	211	199	187			
0	Btu/h	21600	19700	18000	16200	14200		
	Watts	2300	2530	2830	3200	3660		
	Amps	10.5	11.9	13.4	15.3	17.4		
	Lb/h	256	245	235	223	208		
5	Btu/h	24600	22700	20900	19000	17000		
	Watts	2290	2530	2840	3210	3660		
	Amps	10.4	11.8	13.4	15.2	17.3		
	Lb/h	290	280	271	261	247		
10	Btu/h	27800	25800	23900	22000	19900	17500	14700
	Watts	2280	2530	2840	3210	3660	4200	4830
	Amps	10.4	11.8	13.3	15.1	17.2	19.6	22.6
	Lb/h	325	316	308	299	286	268	242
15	Btu/h	31100	29100	27100	25100	22900	20400	17400
	Watts	2260	2520	2830	3210	3660	4190	4810
	Amps	10.3	11.7	13.2	15.0	17.0	19.5	22.4
	Lb/h	361	353	346	338	327	310	285
20	Btu/h	34700	32500	30400	28300	26000	23300	20300
	Watts	2230	2500	2820	3200	3640	4170	4780
	Amps	10.2	11.6	13.1	14.9	16.9	19.3	22.2
	Lb/h	400	393	386	379	369	353	329

25	Btu/h	38500	36200	34000	31700	29300	26500	23300
	Watts	2190	2470	2800	3180	3630	4150	4750
	Amps	10.1	11.5	13.0	14.8	16.8	19.2	22.0
	Lb/h	441	435	429	423	413	398	376
30	Btu/h	42600	40200	37800	35400	32800	29900	26500
	Watts	2150	2440	2780	3160	3610	4120	4720
	Amps	10.0	11.4	12.9	14.7	16.7	19.1	21.9
	Lb/h	486	479	474	469	460	446	424
35	Btu/h	47000	44500	42000	39400	36600	33500	29900
	Watts	2100	2400	2750	3140	3580	4090	4680
	Amps	9.89	11.3	12.8	14.6	16.6	18.9	21.7
	Lb/h	533	527	523	518	510	496	475
40	Btu/h	51800	49100	46400	43600	40700	37300	33500
	Watts	2050	2360	2720	3110	3550	4060	4640
	Amps	9.73	11.2	12.7	14.5	16.5	18.8	21.6
	Lb/h	585	579	575	570	563	549	529
45	Btu/h	56900	54100	51200	48200	45000	41500	37500
	Watts	1990	2320	2680	3080	3530	4030	4600
	Amps	9.55	11.0	12.6	14.3	16.4	18.7	21.4
	Lb/h	640	635	631	627	619	607	586
50	Btu/h	62500	59500	56400	53200	49800	46000	41800
	Watts	1930	2270	2640	3050	3500	4000	4560
	Amps	9.35	10.8	12.4	14.2	16.2	18.6	21.3
	Lb/h	701	695	692	687	680	668	648
55	Btu/h	68600	65300	62000	58600	54900	50900	46400
	Watts	1860	2220	2610	3020	3460	3960	4520
	Amps	9.12	10.7	12.3	14.1	16.1	18.5	21.2
	Lb/h	766	761	757	753	746	733	714

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.498846E+04	1.665582E+03	-2.688524E+00	6.569738E+02
C2	5.840800E+02	-4.417928E+01	-4.195747E-02	5.071043E+00
C3	-7.699294E+02	5.930451E+00	2.759705E-01	-1.117102E+01
C4	4.949762E+00	-2.781786E-01	-1.050913E-03	3.650257E-02
C5	7.831345E-01	8.831502E-01	1.095633E-03	1.506900E-02
C6	6.053640E+00	-1.030970E-01	-2.368932E-03	1.072189E-01
C7	4.696857E-02	9.794226E-04	-1.731233E-06	5.684132E-04
C8	-3.405546E-02	1.018450E-03	1.017544E-05	-2.455102E-04
C9	-8.859124E-03	-4.143557E-03	-8.142485E-06	5.441292E-05
C10	-2.055867E-02	1.599496E-03	1.220896E-05	-3.773344E-04

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature